WHAT IS CLAIMED IS:

1	1.	A method comprising the steps of:
2		receiving first data associated with a block of data at a video processor;
3		when in a first mode of operation, accessing table data in a table in a first manner to
4		perform a first transform of the first data; and
5		when in a second mode of operation, accessing table data in the table in a second manner
6		to perform a second transform of the first data, wherein the second transform is an
7		inverse transform relative to the first transform.

- 2. The method as in Claim 1, wherein the block of video data is associated with 8x8 image data.
- 3. The method as in Claim 1, wherein the block of video data is associated with 2-4-8 image data.
- 4. The method as in Claim 1, further including the step of determining one of the first mode of operation or the second mode of operation based on a tag associated with the first data, wherein the tag identifies a transform associated with the first data.
- The method as in Claim 1, wherein accessing in a first manner includes accessing the table data in the table in a row-major scheme and accessing in a second manner includes accessing the table data in the table in a column-major scheme.
- 1 6. The method as in Claim 1, wherein the table includes a discrete cosine transform matrix.

- The method as in Claim 6, wherein the first transform includes a forward discrete cosine
- transform and the second transform includes an inverse discrete cosine transform.
- 1 8. The method as in Claim 1, wherein the first and second transform are performed using
- 2 common hardware.

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- 9. A method comprising the steps of:
 receiving data associated with a block of data at a video processor;
 when the block of data is of a first type, providing a first table to a transform engine to
 transform the data; and
 when the block of data is of a second type, providing a second table to the transform
 - when the block of data is of a second type, providing a second table to the transform engine to transform the data.
- The method as in Claim 9, further including the steps of:

 when in a first mode of operation, accessing one of the first table or the second table in a

 first manner to perform a first transform; and

 when in a second mode of operation, accessing one of the first table or the second table in

 a second manner to perform a second transform, wherein the second transform is

 an inverse transform relative to the first transform.
 - 11. The method as in Claim 10, wherein accessing in a first manner includes accessing one of the first table or the second table using a row-major scheme and accessing in a second manner includes accessing one of the first table or the second table using a column-major scheme.
 - 12. The method as in Claim 9, further including the step of determining the type of data.
- 1 13. The method as in Claim 12, wherein motion estimation is performed to determine the type of data.
- 1 14. The method as in Claim 12, wherein a tag associated with the block of data is used to determine the type of data.

- 1 15. The method as in Claim 9, wherein the first type includes 8-8 image data and the second type includes 2-4-8 image data.
- The method as in Claim 9, wherein the first table includes a first DCT matrix associated with the first type and the second table includes a second DCT matrix associated with the second type.

1	17.	A method comprising the steps of:
2		receiving data associated with a block of data at a video processor;
3		providing a first table to a transform engine to generate a first transform of the data;
4		providing a second table to the transform engine to generate a second transform of the
5		data; and
6		selecting one of the first transform or the second transform dependent on a comparison of
7		values associated with the first transform and the second transform.

1 18. The method as in Claim 17, wherein the comparison includes identifying one of the first transform or the second transform associated with smaller values.

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- 19. A system comprising: 1 a reader to access data associated with a block of data; 2 a transform engine to transform the data according to a table; 3 a table access component to: 4 access said table in a first manner to perform a first transform; 5 access said table in a second manner to perform a second transform, wherein the 6 second transform is an inverse transform relative to the first transform; and 7 a memory to store said data, said table, and a result from one of said first transform or 8
 - 20. The system as in Claim 19, wherein said block of data is associated with one of 8-8 image data or 2-4-8 image data.

said second transform.

- 21. The system as in Claim 19, wherein said reader includes an input port to determine one of said first manner or said second manner to access said table.
- 22. The system as in Claim 21, wherein said first manner includes accessing said table in a row-major scheme and said second manner includes accessing said table in a column-major scheme.
- The system as in Claim 19, wherein said table includes a discrete cosine transform matrix and further wherein said first transform includes a forward discrete cosine transform and said second transform includes an inverse discrete cosine transform.

1	24.	A system comprising:
2		a reader to access data associated with a block of data, said reader to:
3		provide a first table to a transform engine, when the block of data is of a first type
4		provide a second table to said transform engine, when the block of data is of a
5		second type;
6		said transform engine to transform said data using one of said first table or said second
7		table; and
8		a memory to store said data, said first table, said second table and a transform result from
9		said transform engine.

- 25. The system as in Claim 24, wherein the first type is 8-8 image data and the second type is 2-4-8 image data.
- 26. The system as in Claim 24, wherein said reader determines a type of data dependent on a tag associated with the block of data.
- 27. The system as in Claim 24, wherein said first table includes a discrete cosine transform associated with the first type and the said second table includes a discrete cosine transform associated with the second type.